Expanding Automated Astronomy Programs

Russ Genet
California Polytechnic State University

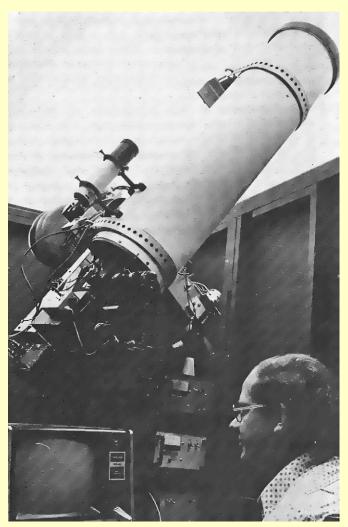
Presentation Outline

- Prior expansion example: variable star photometry
- Speckle expansion
- Facilitating speckle expansion

Prior expansion example Variable star photometry

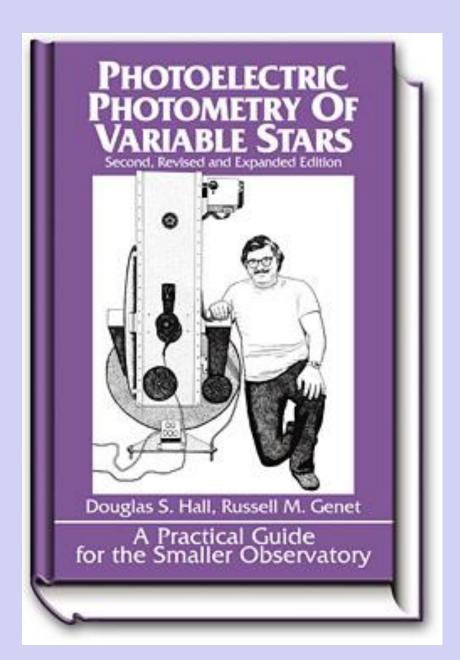
The Fairborn Observatory

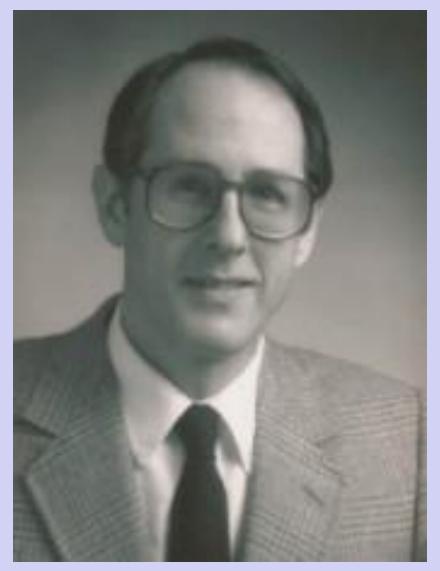










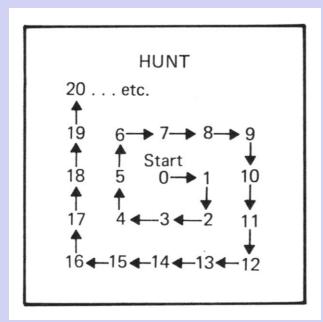


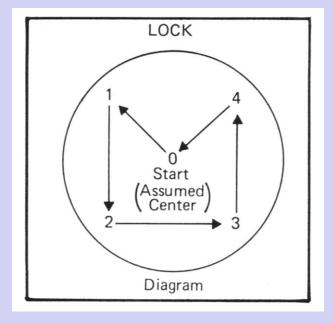
Early Automation





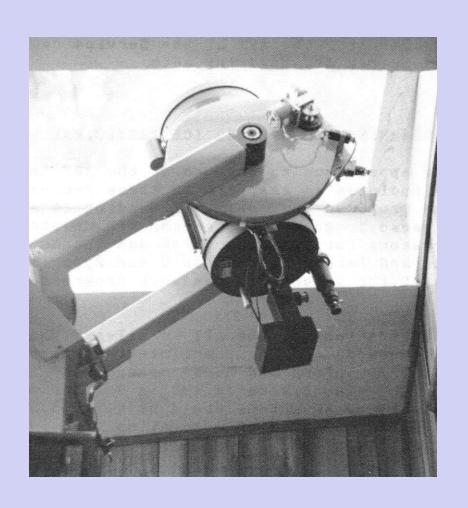


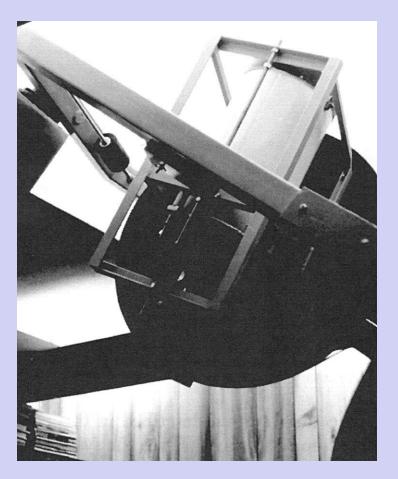




SEQUENCE			
	U	В	٧
0. Check Star			
1. Sky			
2. Comp Star			
3. Variable Star			
4. Comp Star			7.
5. Variable Star			
6. Comp Star			
7. Variable Star			
8. Comp Star			
9. Sky			
10. Check Star			

13-4 The APT Measurement Sequence























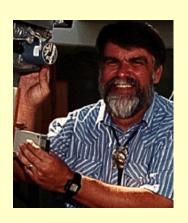


Observatory Automation





Principal Astronomers







Remote Access



Fairborn Observatory Today





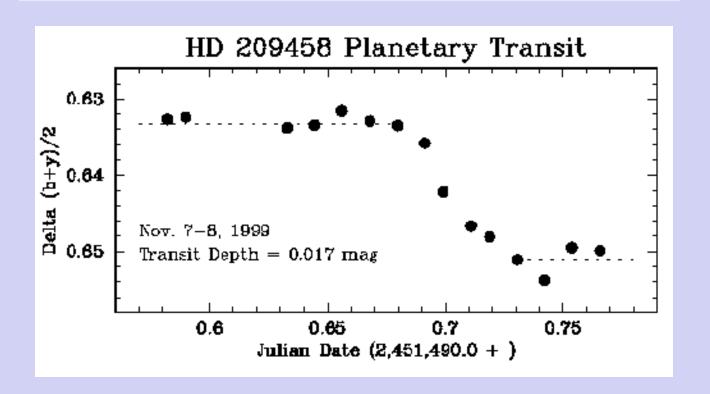


Robotic Telescopes in the 1990s ASP Conference Series, Vol. 34, 1992 Alex V. Filippenko (ed.)

THE USE OF ROBOTIC TELESCOPES FOR DETECTING PLANETARY SYSTEMS

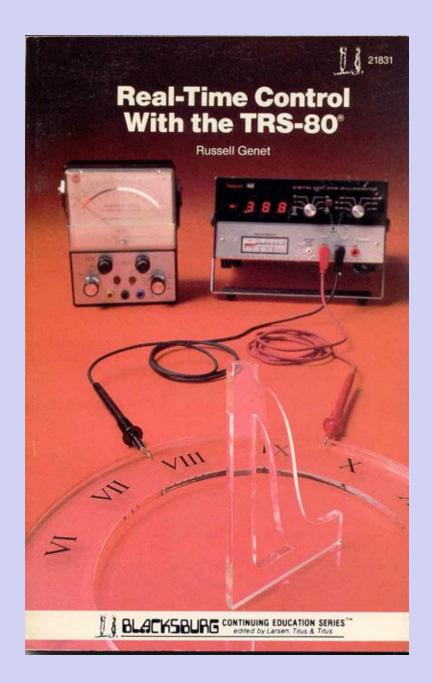
WILLIAM J. BORUCKI NASA Ames Research Center, Mail Stop 245-3, Moffett Field, CA 94035

RUSSELL M. GENET Fairborn Observatory, 3435 E. Edgewood Ave., Mesa, AZ 85204

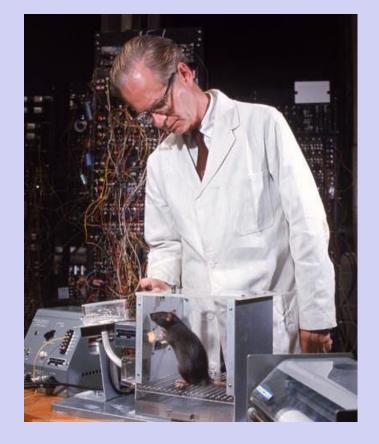


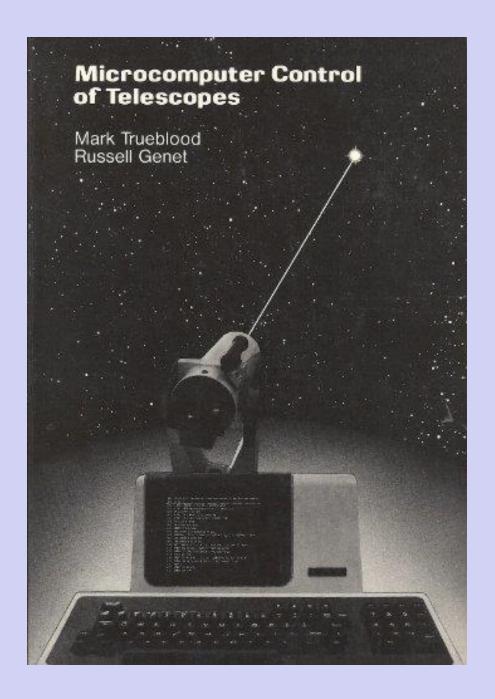


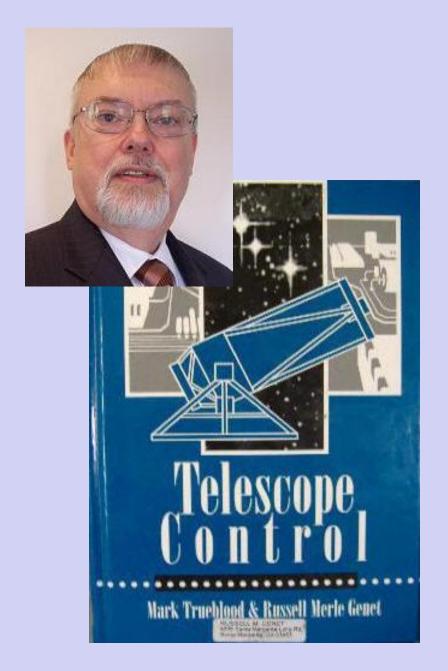












ROBOTIC OBSERVATORIES

A Handbook of Remote — Access Personal — Computer Astronomy



RUSSELL M. GENET & DONALD S. HAYES

With Donald H. Epond, Louis J. Boyd and Donald F. Keller Foreward by Richard Berry



Speckle Expansion

- Why expand?
 - Current lists
 - Gaia, LSST, millions of multiples, large DM
- Expansion areas
 - Amateurs/non-EMCCD cameras
 - Students
 - EMCCD cameras to larger telescopes
 - Automation

Facilitating Expansion

- Workshops and conferences
 - **USNO June 2014**
 - Lowell Observatory October 2014
 - Maui February 2015
 - Honolulu IAU GA August 2015
 - Barcelona Spain September 2015 (?)
- Group runs
- Courses
- Publications